## **Recipe Analysis Worksheet**

| Ingredients | Amount                | Meat/Meat<br>Alternate | Fruit/Vegetable<br>(¼ cup) | Grains/Breads ½ slice bread or equivalent | Milk<br>(as a<br>beverage) |
|-------------|-----------------------|------------------------|----------------------------|---|----------------------------|
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             |                       |                        |                            |   |                            |
|             | Total                 |                        |                            |   |                            |
|             | Calculations          |                        |                            |   |                            |
|             | Number of<br>Servings |                        |                            |   |                            |

#### **Instructions:**

- 1) List all the ingredients in the left hand column and the amount of each ingredient in the  $2^{nd}$  column.
- 2) Find the meat/meat alternate and fruit/vegetable ingredients under Common Food Yields or use the Food Buying Guide to determine food yields. Record the yield of meat/meat alternate in ounces and the yield of fruit/vegetable in ¼ cup servings. Determine the yield of grains/breads using the Grains and Breads Chart or follow the steps outlined in Determining the Number of Grains/Breads Servings in a Recipe. Record the yield of grains/breads in ½ slice bread equivalents.
- 3) Determine the number of 1.5 ounce meat/meat alternate servings for children 3-5 years old by dividing the total by 1.5. Divide the total by 2 to find the number of 2 ounce servings provided for children 6-12 years old.
- 4) Round the total for fruit/vegetables and grains/breads down to the nearest whole number of servings.

It is recommended that recipes that include foods from more than two food groups be credited for no more than two different meal components.

# **Common Food Yields**

The following are common ingredients used in recipes served in day care homes and child care centers. Yields and servings correspond to required amounts for 3-5 year olds for lunch or supper. These yields are rounded to the nearest whole number.

| Meat/Meat Alternates                 |   |             |   |  |  |
|--------------------------------------|---|-------------|---|--|--|
| Meat/Meat Alternate                  | Amount as Yield after Purchased Preparation |             | Number of 1.5 ounce<br>Servings or<br>Equivalents |  |  |
| Beef, ground                         | 1 pound                                     | 11.5 ounces | 7   |  |  |
| Cheese                               | 1 pound                                     | 16 ounces   | 10  |  |  |
| Cheese Spread, processed cheese food | 1 pound                                     | -           | 5   |  |  |
| Chicken, boneless                    | 1 pound                                     | 11.2 ounces | 7   |  |  |
| Chicken with bone                    | 1 pound                                     | 7.68 ounces | 5   |  |  |
| Cottage Cheese                       | 1 cup                                       | -           | 2.65  |  |  |
| Dry Beans                            | 1 pound                                     | 23 ounces   | 13  |  |  |
| Ham, boneless                        | 1 pound                                     | 10 ounces   | 6   |  |  |
| Pork, ground                         | 1 pound                                     | 11.5 ounces | 7   |  |  |
| Tuna                                 | 1 – 6.5 ounce can                           | 5.7 ounces  | 3   |  |  |
| Turkey, ground                       | 1 pound                                     | 12.6 ounces | 8   |  |  |

| Grains/Breads   |                                  |    |  |  |
|---|----------------------------------|----|--|--|
| Grains/Breads Amount Uncooked Number of 1/4 Cup Serving |                                  |    |  |  |
| Egg Noodles   | 1 pound                          | 36 |  |  |
| Elbow Macaroni  | 1 pound                          | 36 |  |  |
| Lasagna Noodles   | 1 pound                          | 36 |  |  |
| Rice, white, enriched                                   | 1 cup (1 c raw = 3 c cooked)     | 12 |  |  |
| Rice, white, enriched                                   | 1 pound (1 lb raw = 3 lb cooked) | 36 |  |  |
| Spaghetti   | 1 pound                          | 36 |  |  |

| Fruits/Vegetables          |                     |                          |  |  |
|----------------------------|---------------------|--------------------------|--|--|
| Fruit/Vegetable Amount Raw |                     | Number of ¼ Cup Servings |  |  |
| Apples, fresh              | 1 pound             | 12                       |  |  |
| Bananas, fresh             | 1 pound             | 8                        |  |  |
| Blackberries, fresh        | 1 pound             | 11                       |  |  |
| Blackberries, frozen       | 1 pound             | 9                        |  |  |
| Blueberries, fresh         | 1 pound             | 11                       |  |  |
| Blueberries, frozen        | 1 pound             | 7                        |  |  |
| Broccoli, fresh or frozen  | 1 pound             | 9                        |  |  |
| Cantaloupe, fresh          | 1 pound             | 5                        |  |  |
| Carrots                    | 6 sticks (4" x ½")* | 1                        |  |  |
| Celery, fresh (sliced)     | 1 pound             | 8                        |  |  |
| Celety, fresh (sheed)      | 4 sticks (3" x ¾")* | 1                        |  |  |

| Fruits/Vegetables (continued)                               |  |                            |  |  |
|---|--|----------------------------|--|--|
| Fruit/Vegetable   | Amount Raw   | Number of 1/4 Cup Servings |  |  |
| Chamina fundh   | 1 pound  | 8                          |  |  |
| Cherries, fresh   | 7 cherries*  | 1                          |  |  |
| Cherries, frozen  | 1 pound  | 7                          |  |  |
| Corn, canned, whole kernel                                  | 16 ounces  | 8                          |  |  |
| (vacuum-packed)   | 10 ounces  | 0                          |  |  |
| Corn, frozen, whole kernel                                  | 1 pound  | 11                         |  |  |
| Cucumber, fresh   | 4 slices (1/8" thick)  | 1                          |  |  |
| Dates, dehydrated, pitted                                   | 1 pound  | 11                         |  |  |
| Grapes, fresh, seedless                                     | 1 pound  | 10                         |  |  |
| Grapes, fresh, seediess                                     | 9 grapes*  | 1                          |  |  |
| Green beans, canned, whole                                  | 16 ounces  | 8                          |  |  |
| Green beans, frozen, cut                                    | 1 pound  | 11                         |  |  |
| Honeydew melon, fresh                                       | 1 pound  | 4                          |  |  |
| Kidney beans, canned  | 16 ounces  | 6                          |  |  |
| Lettuce, iceberg  | 1 piece (4 <sup>1</sup> / <sub>4</sub> " x 4 <sup>1</sup> / <sub>4</sub> ")* | 1                          |  |  |
| Oranges, fresh  | 1 pound  | 7                          |  |  |
| Peaches, fresh  | 1 pound  | 5                          |  |  |
| Peas, canned  | 1 pound  | 6                          |  |  |
| Peas, frozen  | 1 pound  | 10                         |  |  |
| Potatoes, fresh, white                                      | 1 pound  | 8                          |  |  |
| Potatoes, frozen, hash browns                               | 1 pound  | 7                          |  |  |
| Potatoes, frozen, tater tots or                             | 1 nound  | 12                         |  |  |
| rounds  | 1 pound  | 12                         |  |  |
| Raisins   | 1 pound  | 12                         |  |  |
| Raisilis  | 1.3-1.5 ounce package  | 1                          |  |  |
| Raspberries, fresh  | 1 pound  | 12                         |  |  |
| Strawberries, fresh   | 1 pound  | 10                         |  |  |
| Strawberries, frozen  | 1 pound  | 7                          |  |  |
| Tomatoes, canned 16 ounce                                   |  | 7                          |  |  |
| Tomatoes, cherry 4 tomatoes*                                |  | 1                          |  |  |
| Tomatoes, fresh 2 slices (¼" thick)                         |  | 1                          |  |  |
| Tomato Paste 12 ounces $(1T = \frac{1}{4} c \text{ sauce})$ |  | 20                         |  |  |
| Tomato Puree  | 16 ounces (2 T = $\frac{1}{4}$ cup sauce)                                    | 14                         |  |  |
| Tomato Sauce  | 15 ounces  | 7                          |  |  |
| Tomato soup (condensed)                                     | 1 can (10¾ ounce)  | 2                          |  |  |
| Watermelon, fresh   | 1 pound  | 6                          |  |  |

<sup>\*</sup> Numbers are approximate

#### **Grains and Breads**

| GROUP A   | MINIMUM SERVING SIZE FOR GROUP A               |
|---|--|
| Bread type coating  | 1  serving  = 20  gm or  0.7  oz               |
| Bread sticks (hard)   | $\frac{3}{4}$ serving = 15 gm or 0.5 oz        |
| Chow mien noodles   | $\frac{1}{2}$ serving = 10 gm or 0.4 oz        |
| Crackers (saltines and snack crackers)  | $\frac{1}{4}$ serving = 5 gm or 0.2 oz         |
| Croutons  |  |
| Pretzels (hard)   |  |
| • Stuffing (dry) Note: weights apply to bread in stuffing                             |  |
| GROUP B   | MINIMUM SERVING SIZE FOR GROUP B               |
| Bagels  | 1 serving = $25 \text{ gm or } 0.9 \text{ oz}$ |
| Batter type coating   | $\frac{3}{4}$ serving = 19 gm or 0.7 oz        |
| Biscuits  | $\frac{1}{2}$ serving = 13 gm or 0.5 oz        |
| Breads (white, wheat, whole wheat, French, Italian)                                   | $\frac{1}{4}$ serving = 6 gm or 0.2 oz         |
| Buns (hamburger and hotdog)   |  |
| Crackers (graham crackers - all shapes, animal crackers)                              |  |
| Egg roll skins  |  |
| English muffins   |  |
| Pita bread (white, wheat, whole wheat)  |  |
| Pizza crust   |  |
| Pretzels (soft)   |  |
| Rolls (white, wheat, whole wheat, potato)   |  |
| Tortillas (wheat or corn)   |  |
| Tortilla chips (wheat or corn)  |  |
| Taco shells   |  |
| GROUP C   | MINIMUM SERVING SIZE FOR GROUP C               |
| • Cookies <sup>2</sup> (plain)  | 1  serving  = 31  gm or  1.1  oz               |
| Cornbread   | $\frac{3}{4}$ serving = 23 gm or 0.8 oz        |
| Corn muffins  | $\frac{1}{2}$ serving = 16 gm or 0.6 oz        |
| Croissants  | $\frac{1}{4}$ serving = 8 gm or 0.3 oz         |
| • Pancakes  |  |
| • Pie crust (dessert pies <sup>2</sup> , fruit turnovers <sup>3</sup> , and meat/meat |  |
| alternate pies)   |  |
| • Waffles   |  |

Some of the following foods or their accompaniments may contain more sugar, salt, and/or fat than others. This should be a consideration when deciding how often to serve them.

Allowed only for desserts under the enhanced food-based menu planning alternative specified in §210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP.

<sup>&</sup>lt;sup>3</sup> Allowed for desserts under the enhanced food-based menu planning alternative specified in §210.10 and supplements (snacks) served under the NSLP, SFSP, and CACFP, and for breakfasts served under the SBP, SFSP and CACFP.

| GROUP D  | MINIMUM SERVING SIZE FOR GROUP D   |
|--|--|
| Doughnuts <sup>3</sup> (cake and yeast raised,             | 1 serving = 50 gm or 1.8 oz  |
| unfrosted)   | $\frac{3}{4}$ serving = 38 gm or 1.3 oz  |
| • Granola bars <sup>3</sup> (plain)                        | $\frac{1}{2}$ serving = 25 gm or 0.9 oz  |
| Muffins (all, except corn)                                 | $\frac{1}{4}$ serving = 13 gm or 0.5 oz  |
| • Sweet roll <sup>3</sup> (unfrosted)                      |  |
| • Toaster pastry <sup>3</sup> (unfrosted)                  |  |
| GROUP E  | MINIMUM SERVING SIZE FOR GROUP E   |
| • Cookies <sup>2</sup> (with nuts, raisins, chocolate      | 1 serving = 63 gm or 2.2 oz  |
| pieces and/or fruit purees)                                | $\frac{3}{4}$ serving = 47 gm or 1.7 oz  |
| Doughnuts <sup>3</sup> (cake and yeast raised, frosted)    | $\frac{1}{2}$ serving = 31 gm or 1.1 oz  |
| or glazed)   | $\frac{1}{4}$ serving = 16 gm or 0.6 oz  |
| • French toast   |  |
| • Grain fruit bars <sup>3</sup>                            |  |
| • Granola bars <sup>3</sup> (with nuts, raisins, chocolate |  |
| pieces and/or fruit)                                       |  |
| • Sweet rolls <sup>3</sup> (frosted)                       |  |
| • Toaster pastry <sup>3</sup> (frosted)                    |  |
| GROUP F  | MINIMUM SERVING SIZE FOR GROUP F   |
| Cake <sup>2</sup> (plain, unfrosted)                       | 1 serving = 75 gm or 2.7 oz  |
| • Coffee cake <sup>3</sup>                                 | $\frac{3}{4}$ serving = 56 gm or 2 oz  |
|  | $\frac{1}{2}$ serving = 38 gm or 1.3 oz  |
|  | $\frac{1}{4}$ serving = 19 gm or 0.7 oz  |
| GROUP G  | MINIMUM SERVING SIZE FOR GROUP G   |
| Brownies <sup>2</sup> (plain)                              | 1 serving $= 115 \text{ gm or } 4 \text{ oz}$                                      |
| • Cake <sup>2</sup> (all varieties, frosted)               | <sup>3</sup> / <sub>4</sub> serving = 86 gm or 3 oz                                |
|  | $\frac{1}{2}$ serving = 58 gm or 2 oz  |
| 22 22 2  | <sup>1</sup> / <sub>4</sub> serving = 29 gm or 1 oz                                |
| GROUP H  | MINIMUM SERVING SIZE FOR GROUP H   |
| • Barley   | 1 serving = ½ cup cooked (or 25 gm dry)  |
| Breakfast cereals (cooked) <sup>4</sup>                    |  |
| Bulgur or cracked wheat                                    |  |
| Macaroni (all shapes)                                      |  |
| Noodles (all varieties)                                    |  |
| Pasta (all shapes)   |  |
| Ravioli (noodle only)                                      |  |
| Rice (enriched white or brown)                             |  |
| GROUP I  | MINIMUM SERVING SIZE FOR GROUP I   |
| • Ready to eat breakfast cereal (cold dry) <sup>4</sup>    | $1 \text{ serving } = \frac{3}{4} \text{ cup or } 1 \text{ oz, whichever is less}$ |

<sup>&</sup>lt;sup>4</sup> Refer to program regulations for the appropriate serving size for supplements served to children aged 1 through 5 in the NSLP; breakfasts served under the SBP; and meals served to children ages 1 through 5 and adult participants in the CACFP. Breakfast cereals are traditionally served as a breakfast menu item but may be served in meals other than breakfast.

# Determining the Number of Grains/Breads Servings in a Recipe

Determining the number of grains/breads servings in a recipe is an important step in assuring that the meals you serve are nutritious and meet Federal meal pattern requirements. One serving of grain/bread must contain 14.75 grams of wholegrain meal, bran, germ, or enriched flour. For crediting other types of dry, wholegrain cereal in a recipe, 25 grams is used as the equivalent of one grains/breads serving.

To determine the number of grains/breads servings in a recipe, follow the steps below. On a page to follow there is an example recipe that was evaluated following these steps.

- 1. Under Ingredients-A, list any oatmeal, cornmeal, whole-grain bran, germ or enriched flour used in the recipe. List the quantity of these ingredients under Quantity. Use the chart on the following page to convert fractions to decimal values.
- 2. Under Ingredients-B, list any other dry, whole-grain cereal ingredients used in the recipe. List the quantity of these ingredients under Quantity. Use the chart on the following page to convert fractions to decimal values.
- 3. Use the chart, "Weights of One Cup of Commonly Used Ingredients," from this packet to determine the gram weight of each ingredient listed. Record this under Grams Per Cup.
- 4. Multiply the Quantity (1 and 2) by the Grams Per Cup (3) to determine the Total Gram Weight of the ingredients.
- 5. Divide the Total Gram Weight (4) by the factor indicated to determine the Grains/Bread Contribution.
- 6. Add all values under Grains/Breads Contribution (5) to determine the Total Grains/Breads Contribution.
- 7. Divide the Total Grains/Breads Contribution (6) by the number of servings in the recipe to determine the Grains/Breads per Serving of Recipe. Round down to the nearest ¼ of a serving (7).

| (1)<br>(1)<br>(1) | Quantity  (1) x  (1) x  (1) x  (1) x | Grams Per Cup  (3) = (3) = (3) = |  | 14.75 = _<br>14.75 = _<br>14.75 = _ | Grains/Breads Contribution (5) (5) (5) |
|-------------------|--------------------------------------|----------------------------------|--|-------------------------------------|--|
| Ingredients-B     | Quantity                             | Grams Per Cup                    | Total Gram<br>Weight   |                                     | Grains/Breads<br>Contribution          |
| (2)<br>(2)<br>(2) | (2) x<br>(2) x<br>(2) x              | (3)<br>(3)<br>(3)                | (4) ÷ (4) ÷ (4) ÷ (4) ÷ Total Grains/Breads C ÷ Total Number | of Servings                         | (5)<br>(5)<br>(5)<br>(6)<br>(7)        |

# **Common Abbreviations**

| tsp or tteaspoon    | wtweight              |
|---------------------|-----------------------|
| Tbsp or Ttablespoon | Nonumber              |
| ccup                | pkgpackage            |
| ozounce             | ° Fdegrees Fahrenheit |
| fl ozfluid ounce    | ggram                 |
| lb or #pound        | mgmilligram           |
| ptpint              | Lliter                |
| qtquart             | mLmilliliter          |
| galgallon           |                       |

# **Common Measures and Equivalents**

| 3  tsp = 1  T     | 16  oz = 1  lb   |
|-------------------|------------------|
| 2 T = 1/8 cup     | 1  lb = 454  g   |
| 4 T = 1/4 cup     | 2 c = 1/2 qt     |
| 5-1/3 T = 1/3 cup | 4 c = 1 qt       |
| 8 T = 1/2 cup     | 8 c = 1/2 gal    |
| 16 T = 1 cup      | 1  pt = 2  c     |
| 1  oz = 28.3  g   | 2 pt = 1 qt      |
| 4  oz = 1/4  lb   | 2  qt = 1/2  gal |
| 8  oz = 1/2  lb   | 4 qt = 1 gal     |
| 12  oz = 3/4  lb  |                  |

# **Conversion Factors**

The following chart is helpful for determining the crediting of many homemade foods. To find the weight of a fraction of a cup, follow the directions in the table below.

| Multiply the weight of one | To find the weight of: |
|----------------------------|------------------------|
| cup by:                    |                        |
| 0.75                       | 3/4 cup                |
| 0.66                       | 2/3 cup                |
| 0.50                       | 1/2 cup                |
| 0.33                       | 1/3 cup                |
| 0.25                       | 1/4 cup                |
| 0.12                       | 1/8 cup                |

# Weights of One Cup of Commonly Used Ingredients

The use of company or product names does not imply approval or endorsement of products by the USDA. Product names are given only for clarification.

| Food Item  | Type                 | Weight of One Cup (grams) |
|--|----------------------|---------------------------|
| Barley   | Uncooked             | 195                       |
| ·  | Cooked               | 162                       |
| Breadcrumbs  | Fine, dry            | 107                       |
|  | Soft                 | 43                        |
| Bulgur   | Uncooked             | 140                       |
|  | Cooked               | 182                       |
| Cereals  | All-Bran             | 61                        |
|  | Bran Buds            | 75                        |
|  | Cheerios             | 28                        |
|  | Corn Chex            | 29                        |
|  | Corn Flakes, crushed | 80                        |
|  | Corn Flakes, whole   | 29                        |
|  | Puffed Rice          | 13                        |
|  | Rice Chex            | 33                        |
|  | Rice Krispies        | 27                        |
|  | Wheaties             | 32                        |
| Cornmeal, enriched, uncooked   | Yellow, degerminated | 151                       |
|  | Yellow, stone-ground | 132                       |
| Cracker Crumbs   | Graham               | 84                        |
| Crucios Crumes   | Snack, round         | 80                        |
| Flour, cake  | Unsifted, dipped     | 119                       |
| 11001, 00110   | Unsifted, spooned    | 111                       |
|  | Sifted, spooned      | 99                        |
| Flour, rice, brown   | Unsifted, spooned    | 158                       |
| Flour, rice, white   | Unsifted, spooned    | 149                       |
| Four, rye, dark  | Unstirred, spooned   | 128                       |
|  | Stirred, spooned     | 127                       |
| Flour, rye, light  | Unstirred, spooned   | 101                       |
|  | Stirred, spooned     | 88                        |
| Flour, wheat, all-purpose  | Unsifted, dipped     | 143                       |
| , and the property of the prop | Unsifted, spooned    | 126                       |
|  | Sifted, spooned      | 116                       |
| Flour, wheat, bread  | Unsifted, dipped     | 136                       |
|  | Unsifted, spooned    | 123                       |
|  | Sifted, spooned      | 117                       |
| Flour, wheat, self-rising  | Unsifted, dipped     | 130                       |
| Trous, whom, som hising  | Unsifted, spooned    | 127                       |
|  | Sifted, spooned      | 106                       |
| Flour, whole-wheat   | Stirred, spooned     | 120                       |
| Germ, wheat  | Spooned              | 115                       |
| Oat Bran*  | Raw                  | 93                        |
|  | Cooked               | 220                       |
| Oats, rolled, quick  | Uncooked             | 73                        |
| outo, ronou, quien   | Ground               | 109                       |
| Oats, rolled, regular  | Uncooked             | 75                        |
| Wheat Bran *   | Untoasted            | 60                        |
| TITOUT DIUII   | Toasted              | 84                        |

Taken from: Average Weight of a Measured Cup of Various Foods, Home Economics Research Report No. 41, USDA.

<sup>\*</sup> Pennington, Jean A.T. Food Values of Portions Commonly Used, Sixteenth Edition, 1994.

## **Chili Macaroni Recipe Evaluation**

| Ingredients              | Amount                | Meat/Meat<br>Alternate    | Fruit/Vegetable (1/4 cup) | Grains/Breads  1/2 slice bread or equivalent | Milk<br>(as a<br>beverage) |
|--------------------------|-----------------------|---------------------------|---------------------------|--|----------------------------|
| Ground Beef              | 1 pound               | 11.5 ounces               |                           |  |                            |
| Elbow Macaroni           | 8 ounces              |                           |                           | 18   |                            |
| Tomato Sauce             | 2- 8 ounce cans       |                           | 7.6                       |  |                            |
| Cheese, grated           | 1/2 cup               | 2 ounces                  |                           |  |                            |
| Green Pepper,<br>chopped | 1/4 cup               |                           | 1                         |  |                            |
| Onion, chopped           | 1/4 cup               |                           | 1                         |  |                            |
|                          |                       |                           |                           |  |                            |
|                          |                       |                           |                           |  |                            |
|                          |                       |                           |                           |  |                            |
|                          |                       |                           |                           |  |                            |
|                          |                       |                           |                           |  |                            |
|                          |                       |                           |                           |  |                            |
|                          | Total 13.5 ounce      |                           | 9.6  1/4 cup servings     | 18 servings                                  |                            |
|                          | Calculations          | $13.5 \div 1.5 = 9$       |                           |  |                            |
|                          | Number of<br>Servings | 9<br>1½ ounce<br>servings | 9 servings                | 18 servings                                  |                            |

**Crediting meat/meat alternate and fruit/vegetable**: The maximum number of servings that can be provided is nine because the recipe yields nine servings of meat/meat alternate and fruit/vegetable.

**Crediting meat/meat alternate and bread/grains**: The maximum number of servings that can be provided is nine because the recipe yields nine servings of meat/meat alternate.

**Crediting fruit/vegetable and grains/breads**: The maximum number of servings that can be provided is nine because the recipe yields nine servings of fruit/vegetables.

### **Oatmeal Raisin Cookies Evaluation**

3/4 c sugar
2 T margarine or butter
1 large egg
2 T low fat milk
1/4 c canned applesauce
3/4 c all-purpose flour
1/4 t baking soda
1/2 t ground cinnamon
1/8 t ground nutmeg
11/4 c quick oats
1/2 c raisins

- 1. Cream sugar and margarine or butter until smooth.
- 2. Slowly add egg. Mix on medium speed for one minute.
- 3. Add milk and applesauce. Mix for one minute.
- 4. In a small bowl, combine flour, baking soda, cinnamon, and nutmeg.
- 5. Gradually add dry ingredients to the creamed mixture. Mix on low speed.
- 6. Portion dough by rounded spoonfuls onto a lightly greased cookie sheet.
- 7. Bake for 10-13 minutes until lightly browned. Cook on a wire rack.

Yield: 24 cookies

- 1. Under Ingredients-A, list any oatmeal, cornmeal, whole-grain bran, germ or enriched flour used in the recipe. List the quantity of these ingredients under Quantity. Use the chart on the following page to convert fractions to decimal values.
- 2. Under Ingredients-B, list any other dry, whole-grain cereal ingredients used in the recipe. List the quantity of these ingredients under Quantity. Use the chart on the following page to convert fractions to decimal values.
- 3. Use the chart, "Weights of One Cup of Commonly Used Ingredients," from this packet to determine the gram weight of each ingredient listed. Record this under Grams Per Cup.
- 4. Multiply the Quantity (1 and 2) by the Grams Per Cup (3) to determine the Total Gram Weight of the ingredients.
- 5. Divide the Total Gram Weight (4) by the factor indicated to determine the Grains/Bread Contribution.
- 6. Add all values under Grains/Breads Contribution (5) to determine the Total Grains/Breads Contribution.
- 7. Divide the Total Grains/Breads Contribution (6) by the number of servings in the recipe to determine the Grains/Breads per Serving of Recipe. Round down to the nearest ½ of a serving (7).

| Ingredients-A   | Quantity   | ity Grams Per Cup |               |       | Total Gram<br>Weight |       |       |     | Grains/Breads<br>Contribution |     |  |
|---|------------|-------------------|---------------|-------|----------------------|-------|-------|-----|-------------------------------|-----|--|
| Flour (1)   | .75 c (1)  | X                 | 126 (3)       | =     | 94.5                 | (4) ÷ | 14.75 | =   | 6.4                           | (5) |  |
| Oatmeal (1)   | 1.25 c (1) | х                 | 73 (3)        | = -   | 91.25                | (4) ÷ | 14.75 | =   | 6.2                           | (5) |  |
| (1)   | (1)        | X                 | (3)           | _ = _ |                      | (4) ÷ | 14.75 | = [ |                               | (5) |  |
| Ingredients-B   | Quantity   |                   | Grams Per Cup |       | Total Grai<br>Weight |       |       |     | Grains/B<br>Contribu          |     |  |
| (2)   | (2)        | X                 | (3)           |       |                      | (4) ÷ | 25    | =   |                               | (5) |  |
| (2)   | (2)        | X                 | (3)           |       |                      | (4) ÷ | 25    | =   |                               | (5) |  |
| (2)   | (2)        | X                 | (3)           |       |                      | (4) ÷ | 25    | = _ |                               | (5) |  |
| Total Grains/Breads Contribution  ÷ Total Number of Servings  Grains/Breads Per Serving of Recipe |            |                   |               |       |                      |       |       |     | 12.6<br>24<br>.5              | (6) |  |

One cookie provides ½ grains/breads serving.

1 cookie is sufficient for 1-2 year olds and 3-5 year olds.

2 cookies need to be served for 6-12 year olds.